

FORTHCOMING PUBLICATIONS (A)

July 2003, Vol. 77, No. 4

Condensed Matter & Materials Physics

Stimulation of ice crystallisation with ultrasonic cavitation – microscopic studies

RACHEL CHOW, RENOO BLINDT, ARNOLD KAMP, PETER GROCUIT
AND ROBERT CHIVERS

A structural analysis of the effect of Ar and H₂ on microcrystalline growth in
Si-H materials deposited in conventional PECVD chamber

NAMITA DUTTA GUPTA AND PARTHA CHAUDHURI

Growth and microhardness studies in solution-grown single crystals of thenardite

S KARAN AND S P SEN GUPTA

Photoemission study of Ba 2+ and Nd 3+ substitution for Ca 2+ in the
BSCCO (2212) superconducting system

KAMLESH KUMARI, R K SINGHAL, K B GARG, M HEINONEN, J LEIRO,
ANURAG GUPTA AND S K AGARWAL

Theory of Auger neutralization of positrons at metal surfaces

ABDALAZIZ A ALMULHEM

Rapid determination of quartz and structural characterisation of feldspars in
rocks using FTIR

V RAMASAMY, K ANANDALAKSHMI AND V PONNUSAMY

DC electrical conduction mechanism in polypropylene – Bijoypur white clay
(PP BWC) composites

A RAZZAK AND A H BHUIYAN

Effect of Zn dilution on the electrical properties of Co_{1-x}Zn_xLa_yFe_{2-y}O₄ :
(0.1 ≤ x ≤ 0.9 and y = 0.25)

G ABDELLATIF

Temperature dependence of junction voltage in bilayer cuprate superconductors

M P SINGH

Irradiated polytetrafluoroethylene (PTFE) and polyethylene (PE) microstructural
changes studied by PAL technique

A A AL-BAYATI

Nuclear Physics

Phenomenological anharmonic vibrational models description for the ground
state band energies of even-even nuclei

N A MANSOUR AND A M DIAB

Calculation of neutron cross-sections for ^{90}Zr , ^{208}Pb and ^{209}Bi in the energy range of 0.5-25 MeV by using the optical model potentials

M M H MIAH, M N ISLAM AND M R I FARUQUE

Notes

Optically controlled noise and small-signal behaviour of READ Avalanche diode

G N DASH, J K MISHRA, I P MISHRA AND S R PATTANAİK

Photoemission studies of metals by using Mathieu potential

B ZOLIANA, ZAITHANZAUVA PACHUAU, LALTHAKIMI ZADENG, P K PATRA,
D T KHATHING AND R K THAPA

Second harmonic generation efficiency in KDP crystals containing alkali halides

R ANANDA KUMARI AND R CHANDRAMANI